

PATENT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING
AMENDMENTS OF THE CLAIMS(PCT Rule 62 and
Administrative Instructions, Section 417)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
Office
(Box PCT)
Crystal Plaza 2
Washington, DC 20231
ETATS-UNIS D'AMERIQUE

in its capacity as International Preliminary Examining Authority

Date of mailing:

19 March 1997 (19.03.97)

International application No.:

PCT/US96/10463

International filing date:

17 June 1996 (17.06.96)

Applicant:

SILICON GAMING, INC. et al

The International Bureau hereby informs the International Preliminary Examining Authority that no amendments under Article 19 have been received by the International Bureau (Administrative Instructions, Section 417)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorised officer:

G. Bähr

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PATENT COOPERATION TREATY

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
Office
(Box PCT)
Crystal Plaza 2
Washington, DC 20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 19 March 1997 (19.03.97)	
International application No. PCT/US96/10463	Applicant's or agent's file reference 38184-0026
International filing date (day/month/year) 17 June 1996 (17.06.96)	Priority date (day/month/year) 29 June 1995 (29.06.95)
Applicant ALCORN, Allan, E. et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

16 January 1997 (16.01.97)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
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1211 Geneva 20, Switzerland

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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

20
REC'D 09 MAY 1997
WIPO PCT


Applicant's or agent's file reference 38184-0026	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US96/10463	International filing date (day/month/year) 17 JUNE 1996	Priority date (day/month/year) 29 JUNE 1995
International Patent Classification (IPC) or national classification and IPC IPC(6): H04L 9/00 and US Cl.: 380/25		
Applicant SILICON GAMING, INC.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 0 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of report with regard to novelty, inventive step or industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 16 JANUARY 1997	Date of completion of this report 15 MARCH 1997
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer  BERNARR EARL GREGORY
Facsimile No. (703) 305-3230	Telephone No. (703) 306-4153

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US96/10463

I. Basis of the report

1. This report has been drawn on the basis of (Substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments):

☒ the international application as originally filed.

☒ the description, pages 1-16 , as originally filed.

pages NONE , filed with the demand.

pages NONE , filed with the letter of _____.

pages _____ , filed with the letter of _____.

☒ the claims, Nos. 1-62 , as originally filed.

Nos. NONE , as amended under Article 19.

Nos. NONE , filed with the demand.

Nos. NONE , filed with the letter of _____.

Nos. _____ , filed with the letter of _____.

☒ the drawings, sheets/fig 1-3 , as originally filed.

sheets/fig NONE , filed with the demand.

sheets/fig NONE , filed with the letter of _____.

sheets/fig _____ , filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

☒ the description, pages NONE .

☒ the claims, Nos. NONE .

☒ the drawings, sheets/fig NONE .

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box Additional observations below (Rule 70.2(c)).

4. Additional observations, if necessary:

NONE

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US96/10463

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. STATEMENT**

Novelty (N)	Claims <u>1-62</u>	YES
	Claims <u>NONE</u>	NO
Inventive Step (IS)	Claims <u>1-62</u>	YES
	Claims <u>NONE</u>	NO
Industrial Applicability (IA)	Claims <u>1-62</u>	YES
	Claims <u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS

Claims 1-14 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest Applicant's claimed "method of authenticating a data set of a casino-type viewable game" that is particularly characterized, at least, by steps (c), (f), and (g) of independent claim 1 taken in the overall context of independent claim 1.

Claims 15-22 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest Applicant's claimed "method of preparing a casino game data set capable of authentication" that is particularly characterized, at least, by steps (b), (c), and (d) of independent claim 15 taken in the overall context of independent claim 15.

Claims 23-26 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest Applicant's claimed "method of authenticating a casino game data set of a casino-type viewable game having a signature encrypted from a first abbreviated bit string computed from the casino game data set" that is particularly characterized, at least, by steps (a) and (b) of independent claim 23 taken in the overall context of independent claim 23.

Claims 27-35 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest Applicant's claimed "electronic gaming system for providing authentication of a data set of a casino type game" that is particularly characterized, at least, by the claimed "processing means for enabling the authentication program to compute an abbreviated bit string from the casino game data set stored in said first storing means and for enabling the authentication program to decrypt the encrypted signature stored in said first storing means to provide a decrypted abbreviated bit string" of independent claim 27 taken in the overall context of independent claim 27.

Claims 36-39 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest (Continued on Supplemental Sheet.)

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶ :
H04L 9/00

A1

(11) International Publication Number:

WO 97/01902

(43) International Publication Date:

16 January 1997 (16.01.97)

(21) International Application Number: PCT/US96/10463

(22) International Filing Date: 17 June 1996 (17.06.96)

(30) Priority Data:
497,662 29 June 1995 (29.06.95) US

(71) Applicant (for all designated States except US): SILICON GAMING, INC. [US/US]; 2800 West Bayshore Highway, Palo Alto, CA 94303 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ALCORN, Allan, E. [US/US]; 660 Los Trancos Road, Portola Valley, CA 94028 (US). BARNETT, Michael [US/US]; 3109 Ryan Avenue, Santa Clara, CA 95051 (US). GIACALONE, Louis, D., Jr. [US/US]; 922 Celia Street, Palo Alto, CA 94303 (US). LEVINTHAL, Adam, E. [US/US]; 956 Wilmington Way, Redwood City, CA 94062 (US).

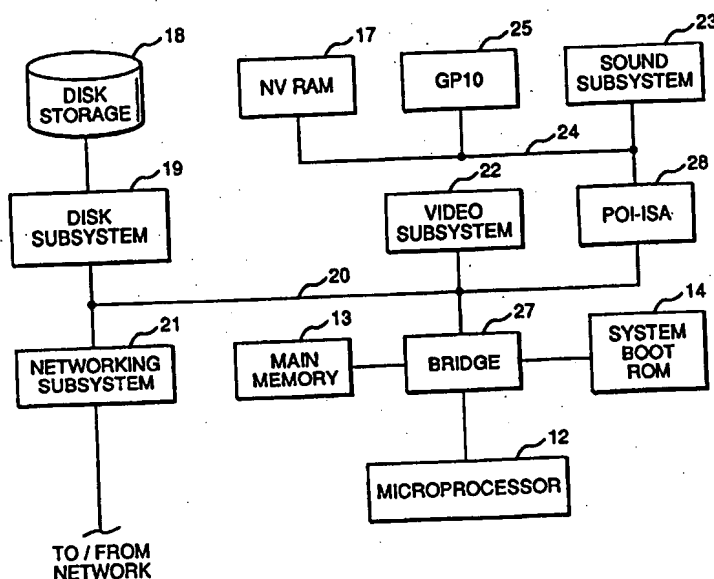
(74) Agents: HAMRICK, Claude, A., S. et al.; Bronson Bronson & McKinnon L.L.P., Suite 600, Ten Almaden Boulevard, San Jose, CA 95113 (US).

(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: ELECTRONIC CASINO GAMING SYSTEM WITH IMPROVED PLAY CAPACITY, AUTHENTICATION AND SECURITY



(57) Abstract

The electronic casino gaming system consists of several system components, including a microprocessor (12), a main memory unit (13) that is typically a random access memory, and a system boot ROM (14). Also included in the electronic casino gaming system are a non-volatile RAM (17), a mass storage unit (18), a disk subsystem (19), and a PCI bus (20). The disk subsystem (19) preferably supports SCSI-2 with options of fast and wide. A video subsystem (22) is also included in the electronic casino gaming system and is coupled to

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US96/10463

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : H04L 9/00

US CL : 380/25

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 380/25,4,9,23,30,49,50,59

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US,A,4,218,582 (HELLMAN ET AL) 19 AUGUST 1980.	1-62
A	US,A,4,759,064 (CHAUM) 19 JULY 1988.	1-62

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	* T	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
* A* document defining the general state of the art which is not considered to be of particular relevance	* X*	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
* E* earlier document published on or after the international filing date	* Y*	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
* L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	* &*	document member of the same patent family
* O* document referring to an oral disclosure, use, exhibition or other means		
* P* document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search
03 SEPTEMBER 1996

Date of mailing of the international search report
11 OCT 1996

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US96/10463

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

~~Sheet 10~~

V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):

Applicant's claimed device set forth in independent claim 36 that is particularly characterized, at least, by the claimed "decryption program and decryption key corresponding to the encryption program and encryption key used to prepare the encrypted signature of the original message digest" of independent claim 36 taken in the overall context of independent claim 36.

Claims 40-44 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest Applicant's claimed "method of preparing casino game software information capable of authentication" that is particularly characterized, at least, by the claimed steps (b) and (c) of independent claim 40 taken in the overall context of independent claim 40.

Claims 45-48 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest Applicant's claimed "method of authenticating casino game software information having a signature encrypted from a first abbreviated bit string computed from the casino game software information" that is particularly characterized, at least, by the claimed steps (a) and (b) of independent claim 45 taken in the overall context of independent claim 45.

Claims 49-58 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest Applicant's claimed "electronic gaming system for providing authentication of software information relating to a casino type game" that is particularly characterized, at least, by the claimed "processing means for enabling the authentication program to compute an abbreviated bit string from the casino game ... decrypted abbreviated bit string" of independent claim 49 taken in the overall context of independent claim 49.

Claims 59-62 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest Applicant's claimed device of independent claim 59 that is particularly characterized, at least, by the claimed "decryption program and decryption key corresponding to the encryption program and encryption key used to prepare the encrypted signature of the original message digest" of independent claim 59 taken in the overall context of independent claim 59.

----- **NEW CITATIONS** -----

NONE